

WHAT IS CLAIMED IS:

1. A pressure sensitive adhesive sheet, comprising a base and a pressure sensitive adhesive layer provided on the base, wherein the content of silicone compound in the pressure sensitive adhesive sheet is equal to or less than  $500 \mu\text{g}/\text{m}^2$ .
2. The pressure sensitive adhesive sheet as claimed in Claim 1, wherein the amount of gas generated from the pressure sensitive adhesive sheet at a temperature of  $85^\circ\text{C}$  for 30 minutes is equal to or less than  $20 \text{ mg}/\text{m}^2$ .
3. The pressure sensitive adhesive sheet as claimed in Claim 1 or 2, wherein the sum of amounts of  $\text{NO}_x^-$ ,  $\text{Cl}^-$ ,  $\text{PO}_4^{3-}$ ,  $\text{K}^+$ ,  $\text{F}^-$ ,  $\text{Na}^+$  and  $\text{Ca}^{2+}$  contained in the pressure sensitive adhesive sheet is equal to or less than  $20 \text{ mg}/\text{m}^2$ .
4. The pressure sensitive adhesive sheet as claimed in any one of Claims 1 to 3, wherein the base is formed from a plastic film or a lint free paper.
5. The pressure sensitive adhesive sheet as claimed in any one of Claims 1 to 4, wherein an antistatic layer is provided between the base and the pressure sensitive adhesive layer.

6. The pressure sensitive adhesive sheet as claimed in Claim 5, wherein the antistatic layer includes at least one antistatic agent selected from the group consisting of carbon black, metal-based conductive filler, metal oxide-based conductive filler and  $\pi$  electron conjugated conductive polymer.

7. The pressure sensitive adhesive sheet as claimed in Claim 5, wherein the antistatic layer is composed of a thin film of a metal or metal oxide.

8. The pressure sensitive adhesive sheet as claimed in any one of Claims 5 to 7, wherein the surface resistivity of the antistatic layer is in the range of  $1 \times 10^4 - 10^{12} \Omega$ .

9. A pressure sensitive adhesive sheet with a release sheet, comprising the pressure sensitive adhesive sheet as defined in any one of Claims 1 to 8 and a release sheet attached to the pressure sensitive adhesive sheet, the release sheet having a releasing agent layer.

10. The pressure sensitive adhesive sheet with the release sheet as claimed in Claim 9, wherein the count of generated particles having a diameter of  $0.1 \mu\text{m}$  or more generated from the pressure sensitive adhesive sheet with the release sheet is equal to or less than 100 particles / liter.

11. The pressure sensitive adhesive sheet with the release sheet as claimed in Claim 9 or 10, wherein the releasing agent layer is formed of a material containing an olefin-based thermoplastic elastomer and a polyethylene resin.

12. The pressure sensitive adhesive sheet with the release sheet as claimed in Claim 11, wherein the weight ratio of the olefin-based thermoplastic elastomer with respect to a polyethylene resin is in the range of 25:75 to 75:25.

13. The pressure sensitive adhesive sheet with the release sheet as claimed in Claim 11 or 12, wherein the density of the olefin-based thermoplastic elastomer is in the range of 0.80 to 0.90g/cm<sup>3</sup>.